CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended). A method of transforming color values of a first device-dependent color space into color values of a second device-dependent color space, to effect a substantially identical visual impression of colors reproduced in the first and second color spaces, the method which comprises:

providing a first color profile characterizing the first color space and providing a second color profile characterizing the second color space;

wherein the first and second color profiles specify an association between the color values of the first and second device-dependent color spaces and the color values of a device-independent color space;

wherein a white point of the first device-dependent color space, a white point of the second device-dependent color space, and a white point of the

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device-independent color space are described by device-independent white point values;

determining relative color values of the device-independent color space from the color values of the first device-dependent color space by way of the association specified in the first color profile;

converting the relative color values into absolute color values in a ratio corresponding to a ratio of the values of the white point of the first device-dependent color space and the white point of the device-independent color space;

determining chromatically adapted color values from the absolute color values by way of a chromatic adaptation transformation, the chromatic adaptation transformation includes converting the absolute color values into receptor signals L, M, S of color receptors by use of matrix multiplication;

converting the chromatically adapted color values into relative chromatically adapted color values in a ratio corresponding to a ratio of the values of the white point

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of the device-independent color space and the white point
of the second device-dependent color space; and

determining color values of the second device-dependent
color space from the relative chromatically adapted color
values by way of the association specified in the second
color profile.

2 (original). The method according to claim 1, which
comprises carrying out the chromatic adaptation
transformation by way of a Bradford matrix (B), with:

$$B = \begin{pmatrix} 0.8951 & 0.2664 & -0.1614 \\ -0.7502 & 1.7135 & 0.0367 \\ 0.0389 & -0.0685 & 1.0296 \end{pmatrix}.$$

3 (original). The method according to claim 1, which
comprises carrying out the chromatic adaptation
transformation in accordance with a von Kries matrix.

4 (original). The method according to claim 1, which
comprises using color profiles formatted in accordance
with the ICC specification (International Color
Consortium).

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5 (original). The method according to claim 1, which comprises leaving unchanged the associations contained in the color profiles between the color values of the device-dependent color space and the color values of the device-independent color space.